

Product datasheet for **TP315593M**

HGF (NM_000601) Human Recombinant Protein

Product data:

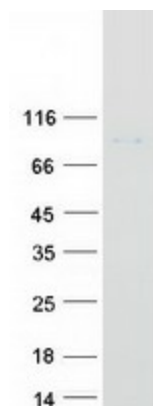
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human hepatocyte growth factor (hepapoietin A; scatter factor) (HGF), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215593 representing NM_000601 Red =Cloning site Green =Tags(s) MWVTKLLPALLLQHVLLHLLLLPIAIPYAEGQRKRRNTIHEFKKSAKTTLIKIDPALKIKTKKVNTADQC ANRCTRNGKLPFTCKAFVFDKARKQCLWFPFNSMSSGVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGTV SITKSGIKCQPWSSMIPHEHSFLPSSYRGKDLQENYCRNPRGEEGPPWCFTSNPEVRYEVCDIPQCSEVE CMTNCGESYRGLMDHTESGKICQRWDHQTPHRHKFLPERYPDKGFDNYCRNPDGQPRPWCYTLDPHTRW EYCAIKTCADNTMNDTDVPLETTECIQGQEGYRGTVNTIWNIGIPCQRWDSQYPHEHDMTPENFKCKDLR ENYCRNPDGSESPWCFTTDPNIRVGYCSQIPNCDMSHGQDCYRGNKGNYMGNLSQTRSGLTCSMWDKNME DLHRHIFWEPDASKLNENYCRNPDDDAHGPWCYTGNPLIPWDYCPISRCEGDTTPTIVNLDHPVISC AKT KQLRWVNGIPTRTNIGWMVSLRYRNKHICGGLIKESWVLTARQCFPSRDLKDYEAWLGIHDVHGRGDEK CKQVLNVSQLVYGPESDLVLMKLARPAVLDDFVSTIDLPNYGCTIPEKTS CSVYGWGYTGLIN YDGLLR VAHLYIMGNEKCSQHHRGKVTLNESEICAGAEKIGSGPCEGDYGGPLVCEQH KM RMVLGVIVPGRGCAIP NRPGIFVRVAYYAKWIHKIILTYKVPQS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	79.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Cell treatment (PMID: 26296757)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_000592</u>
Locus ID:	3082
UniProt ID:	<u>P14210</u>
RefSeq Size:	2820
Cytogenetics:	7q21.11
RefSeq ORF:	2184
Synonyms:	DFNB39; F-TCF; HGFB; HPTA; SF
Summary:	This gene encodes a protein that binds to the hepatocyte growth factor receptor to regulate cell growth, cell motility and morphogenesis in numerous cell and tissue types. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate alpha and beta chains, which form the mature heterodimer. This protein is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. This protein also plays a role in angiogenesis, tumorigenesis, and tissue regeneration. Although the encoded protein is a member of the peptidase S1 family of serine proteases, it lacks peptidase activity. Mutations in this gene are associated with nonsyndromic hearing loss. [provided by RefSeq, Nov 2015]
Protein Families:	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Protease, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Focal adhesion, Melanoma, Pathways in cancer, Renal cell carcinoma

Product images:



Coomassie blue staining of purified HGF protein (Cat# [TP315593]). The protein was produced from HEK293T cells transfected with HGF cDNA clone (Cat# [RC215593]) using MegaTran 2.0 (Cat# [TT210002]).